

FIG. 1B

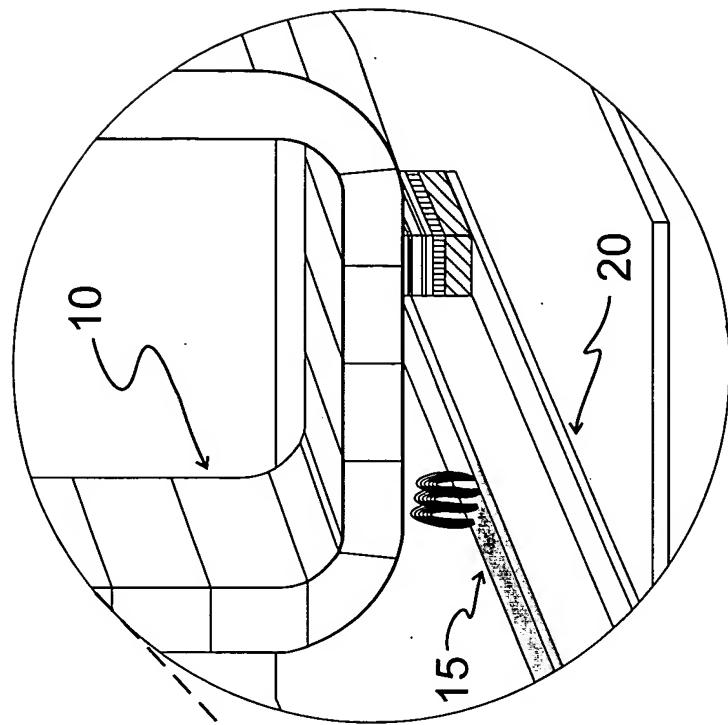
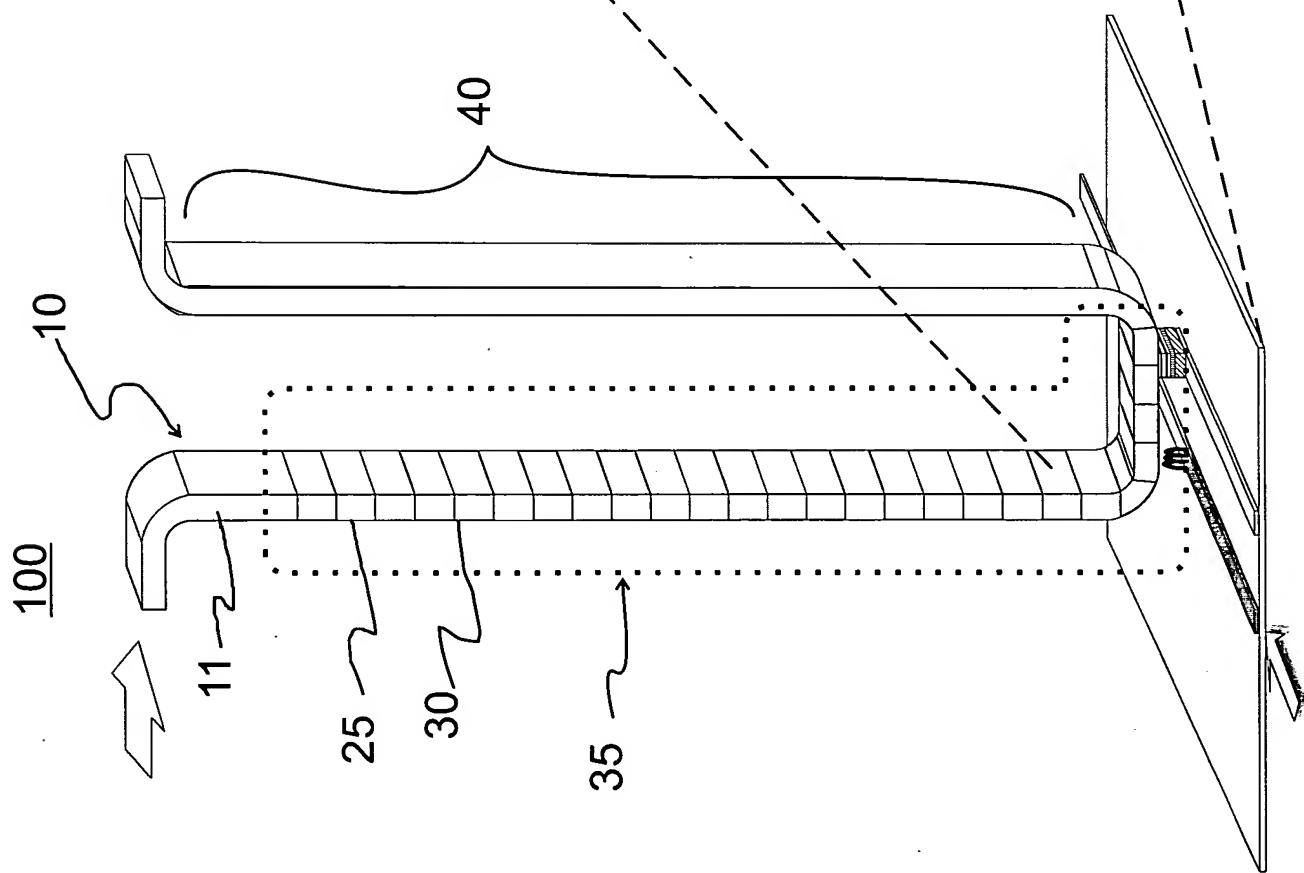


FIG. 1A



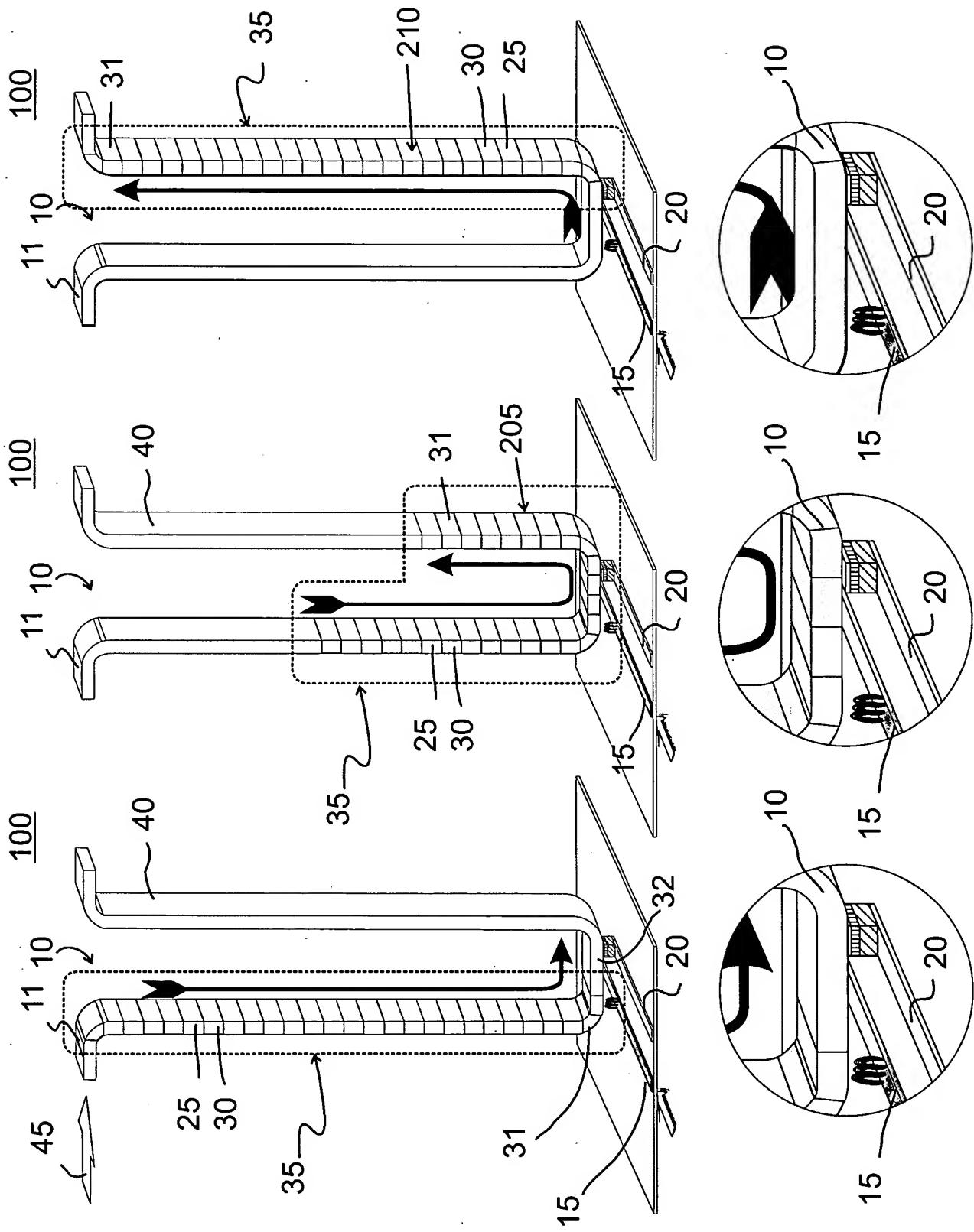
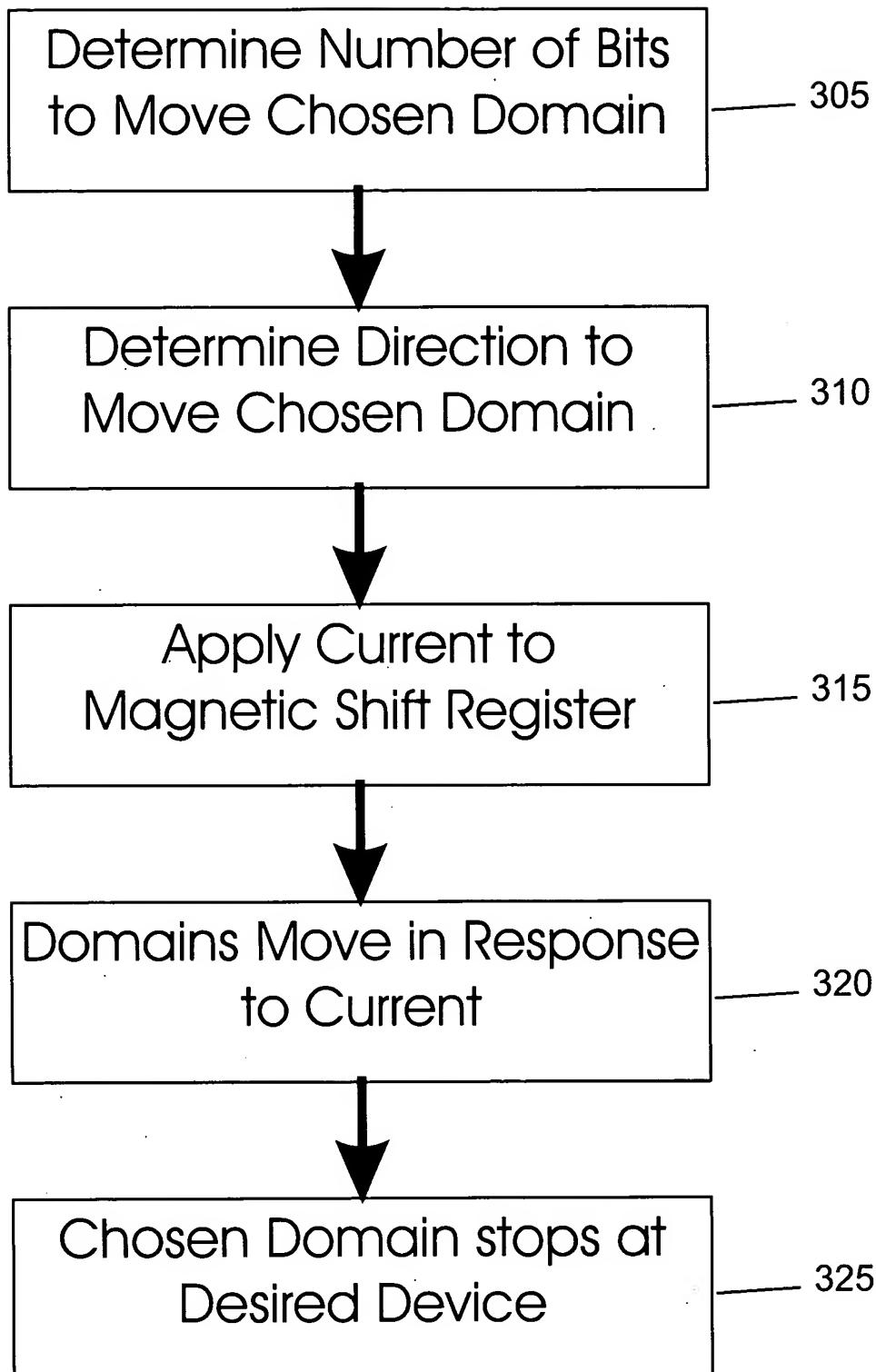


FIG. 2A  
FIG. 2B  
FIG. 2C

FIG. 3

300



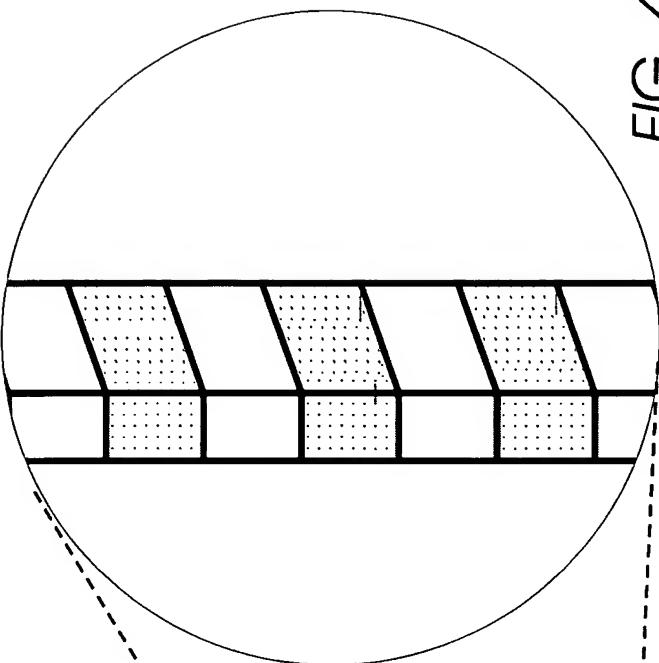


FIG. 4B

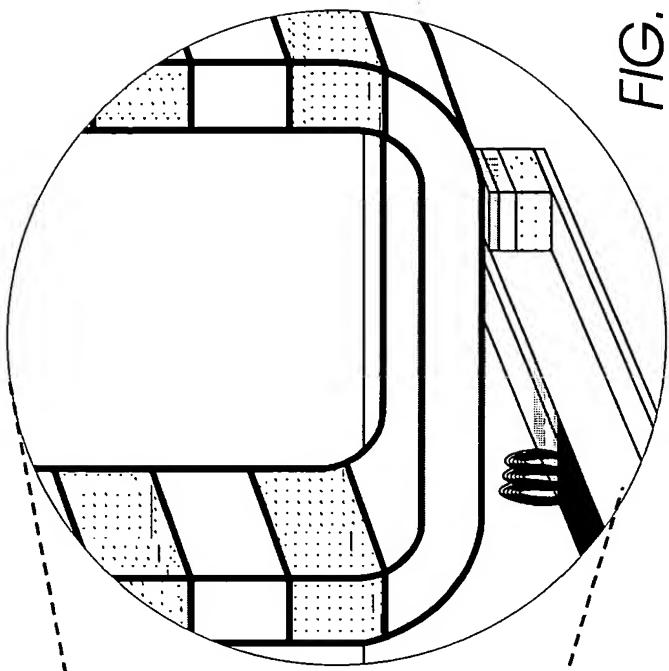


FIG. 4C

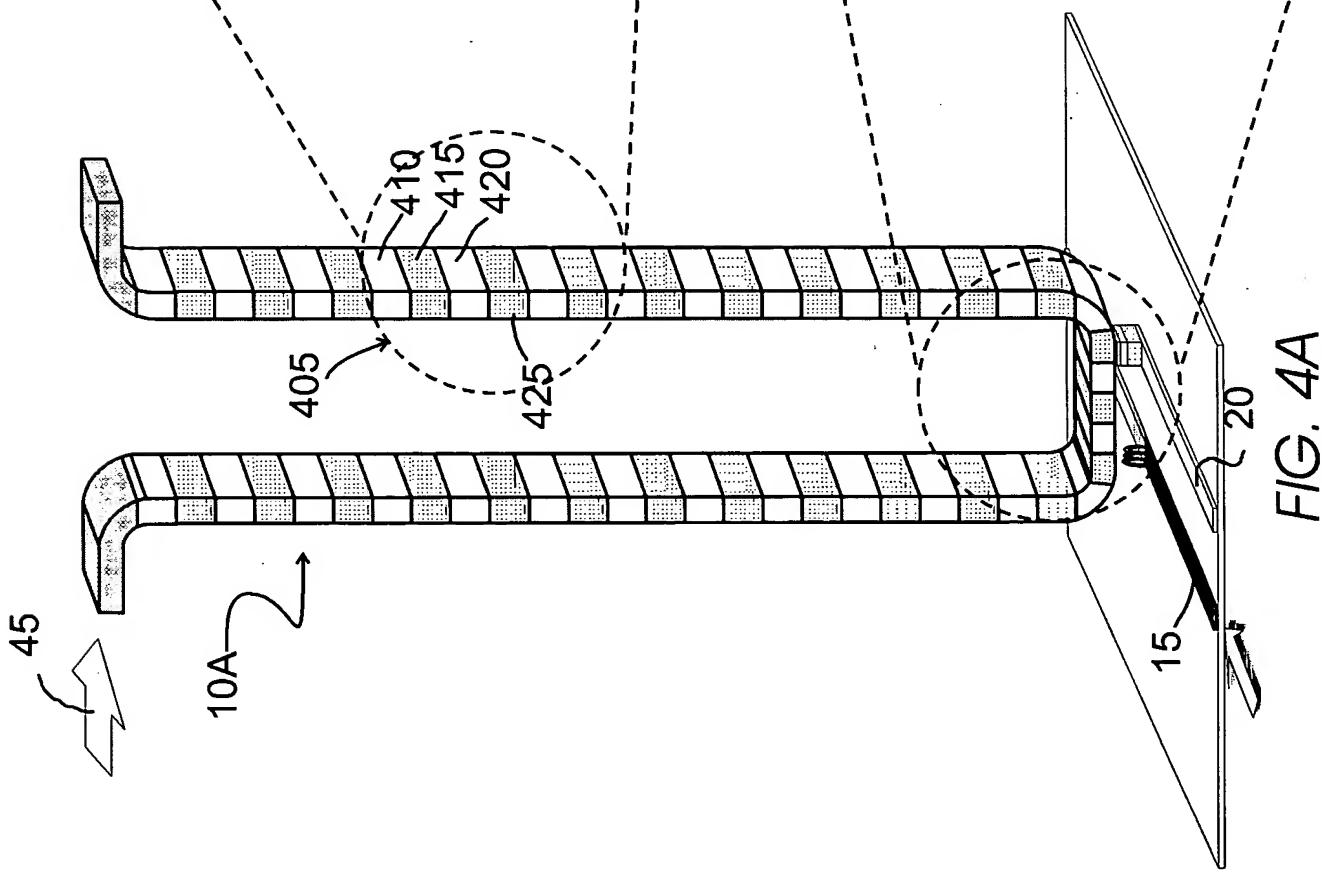
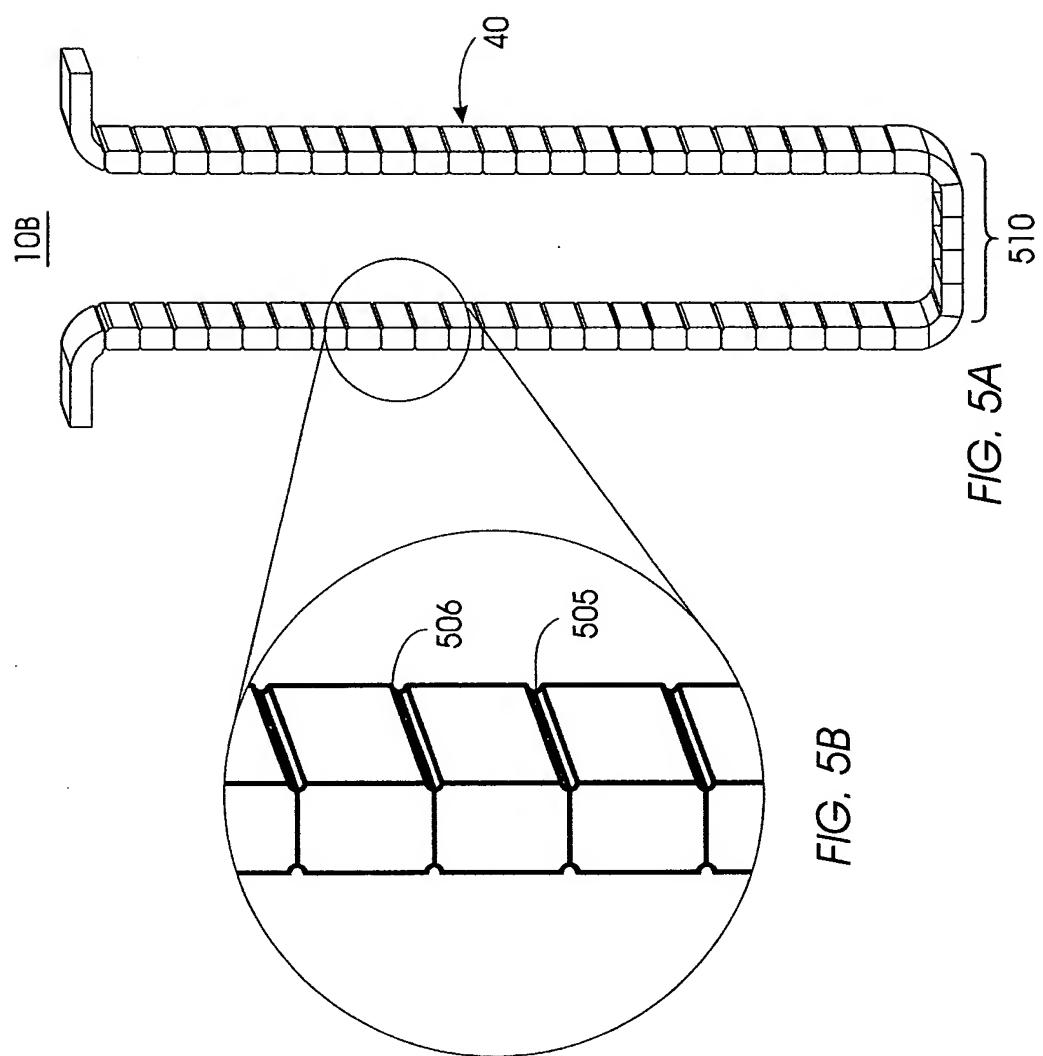


FIG. 4A



10AA

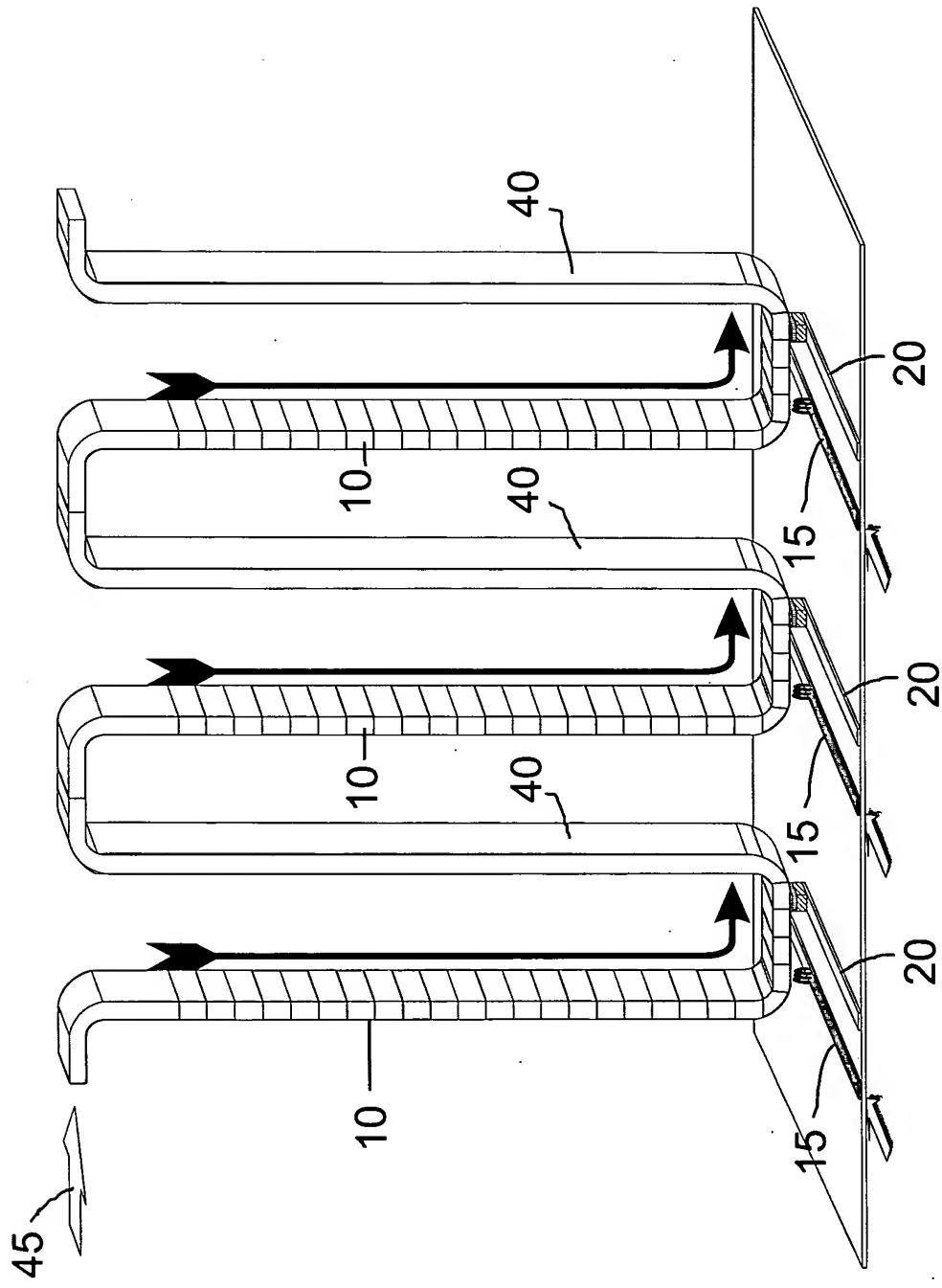


FIG. 6

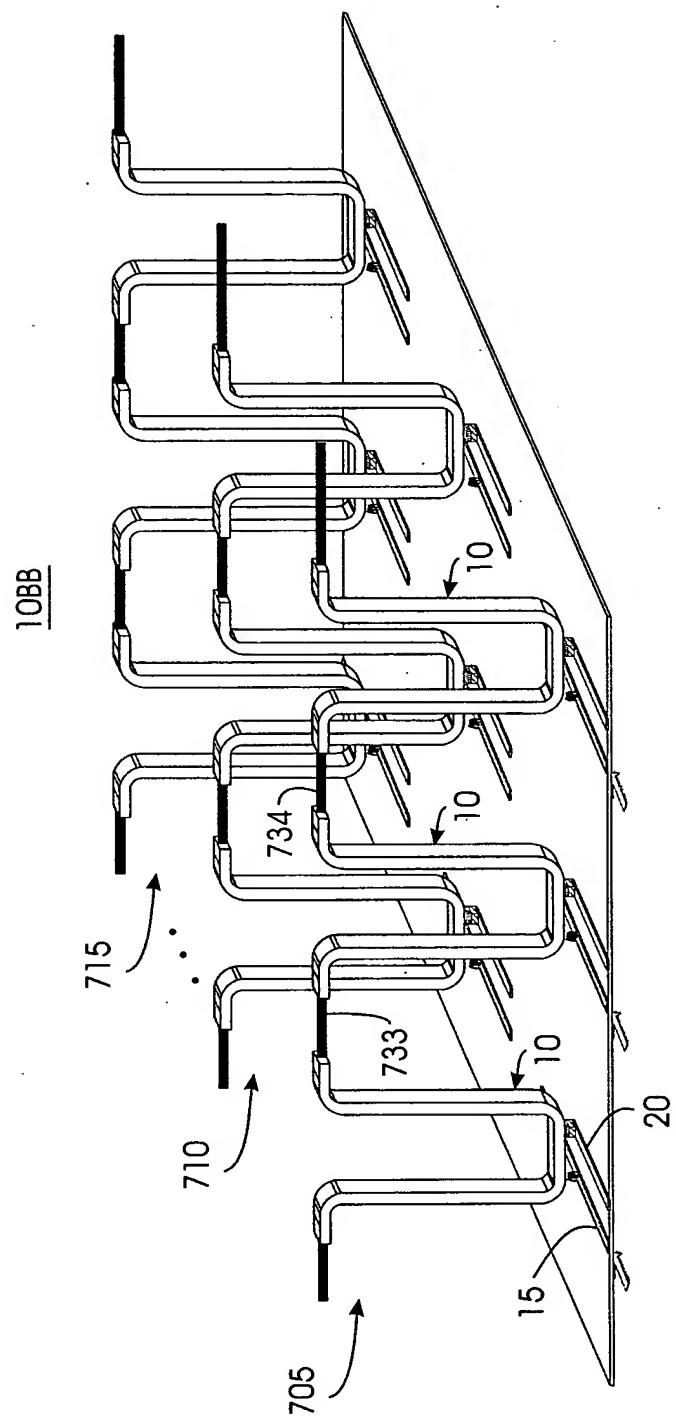


FIG. 7

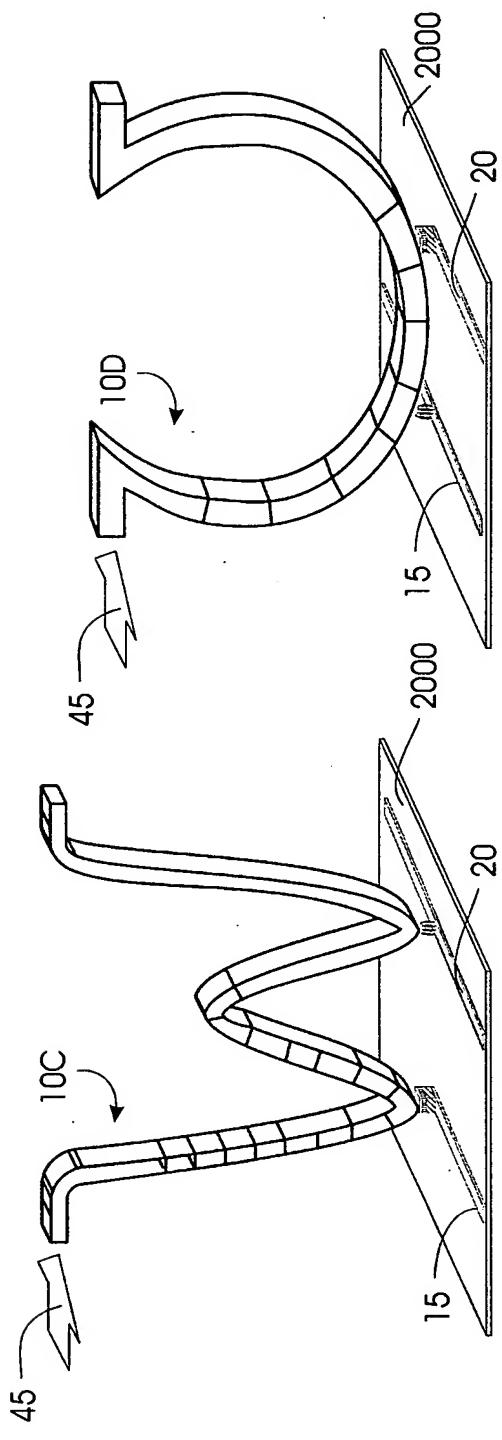


FIG. 8B

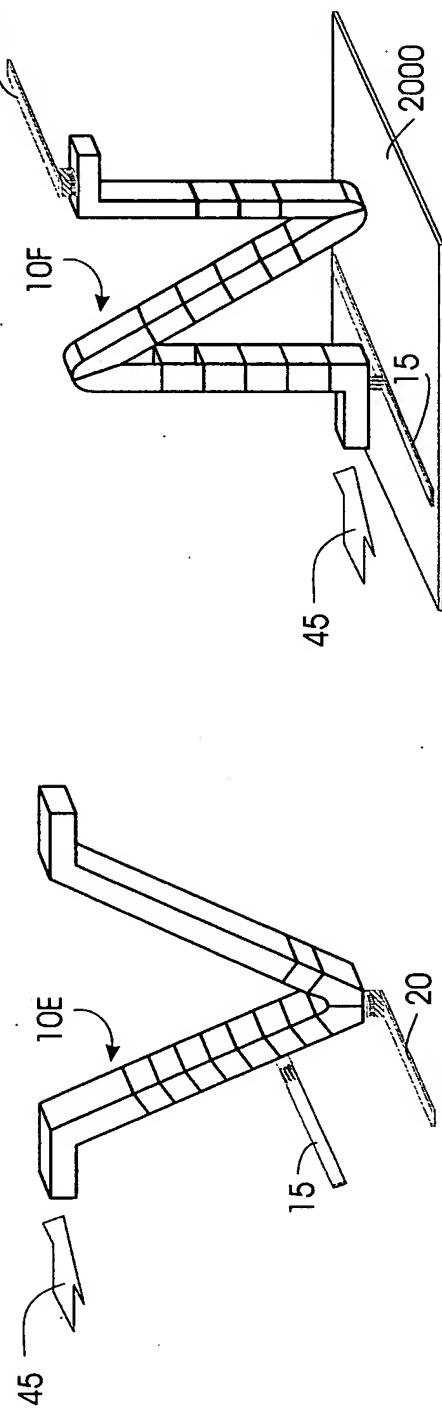
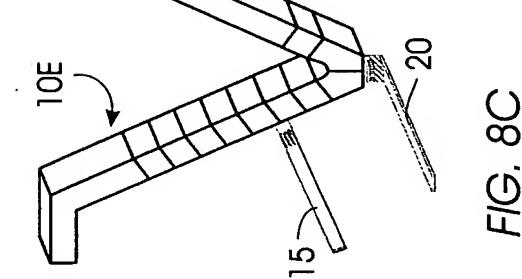


FIG. 8D



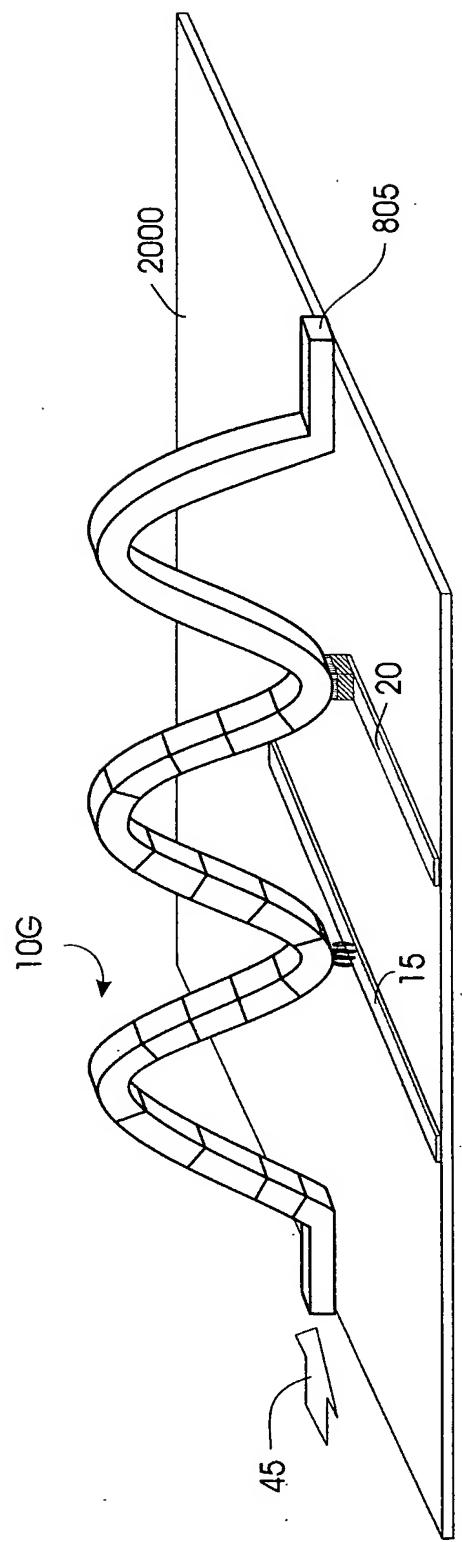


FIG. 8E

FIG. 9A

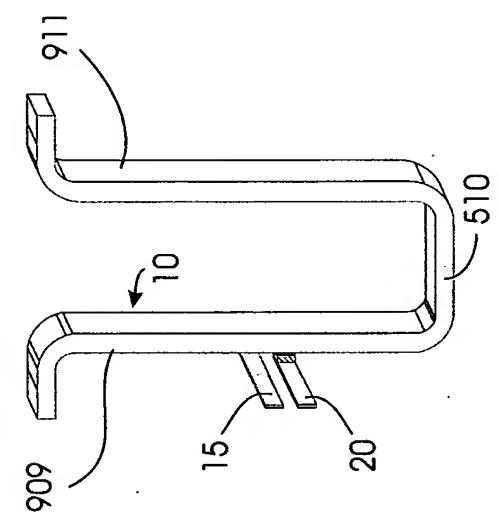


FIG. 9C

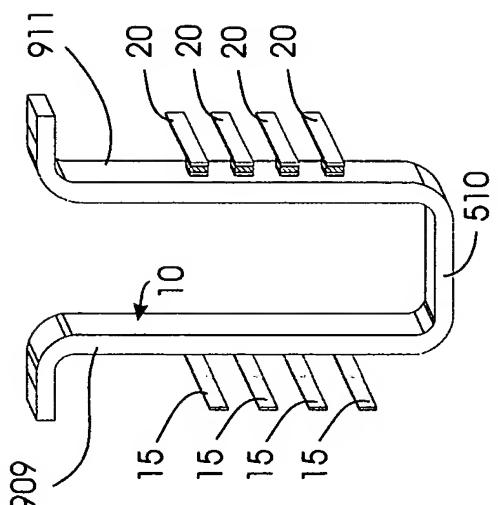


FIG. 9B

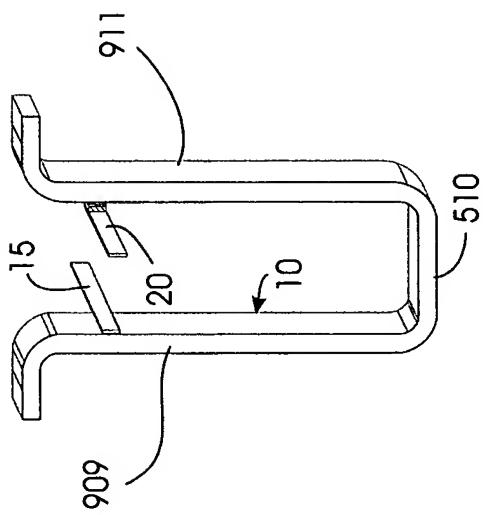
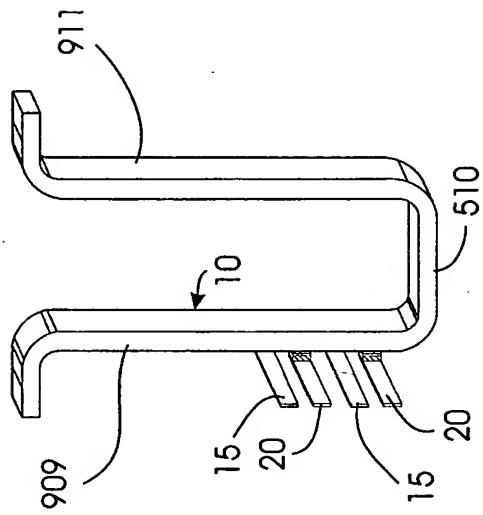


FIG. 9D



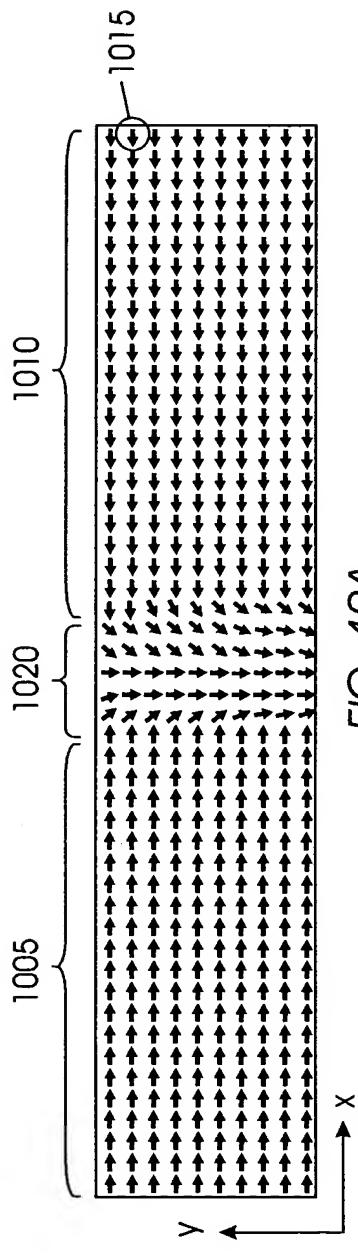


FIG. 10A

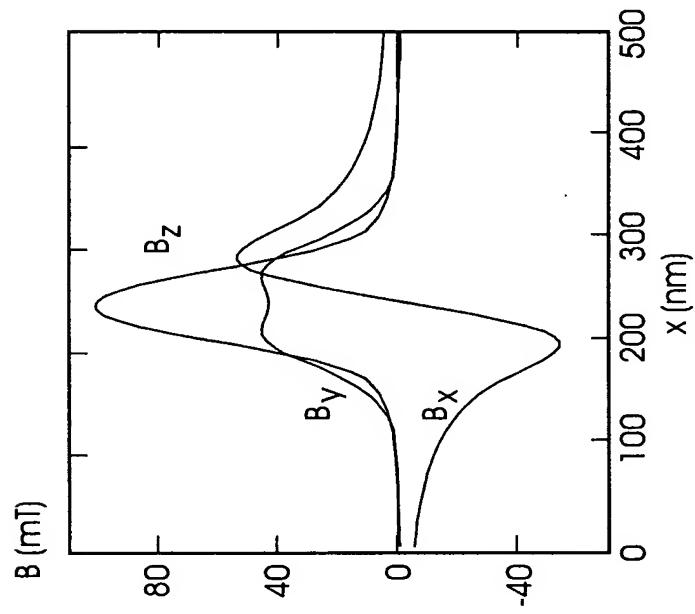


FIG. 10B

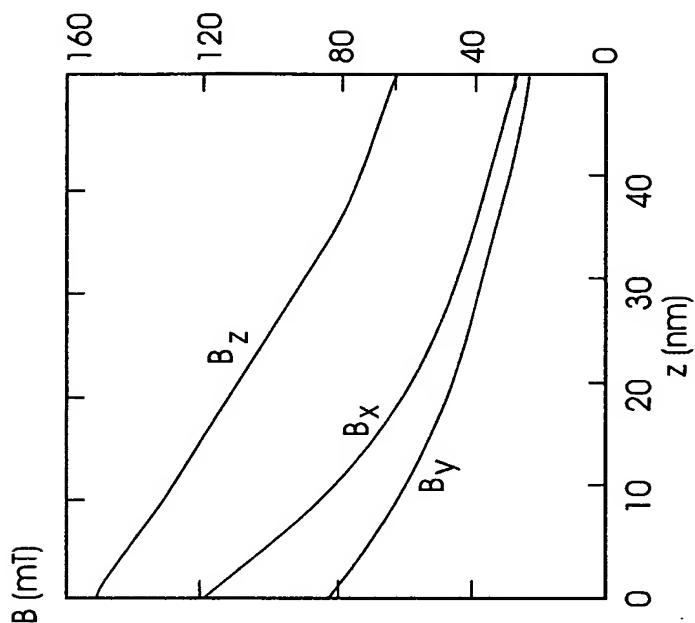
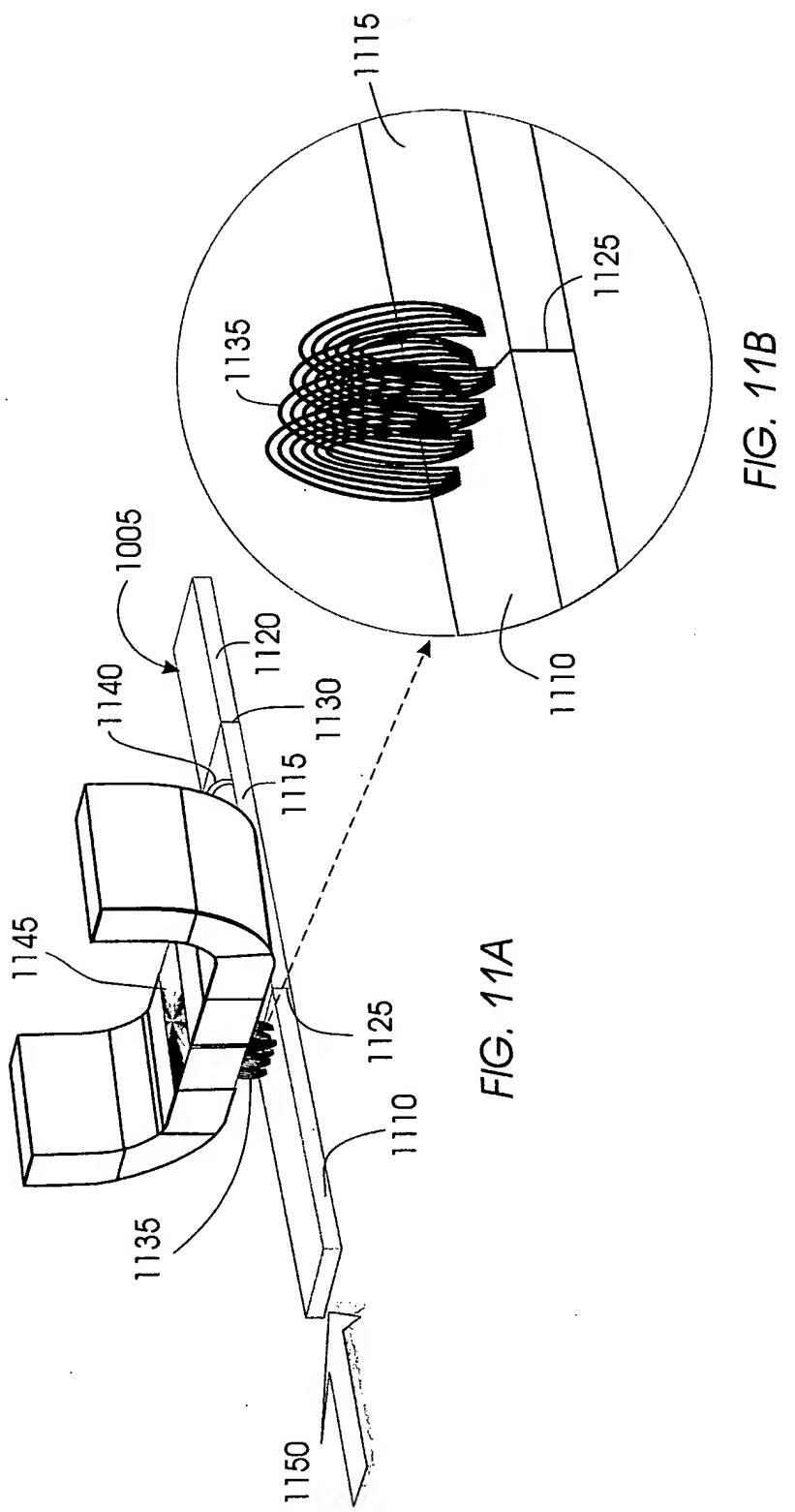


FIG. 10C



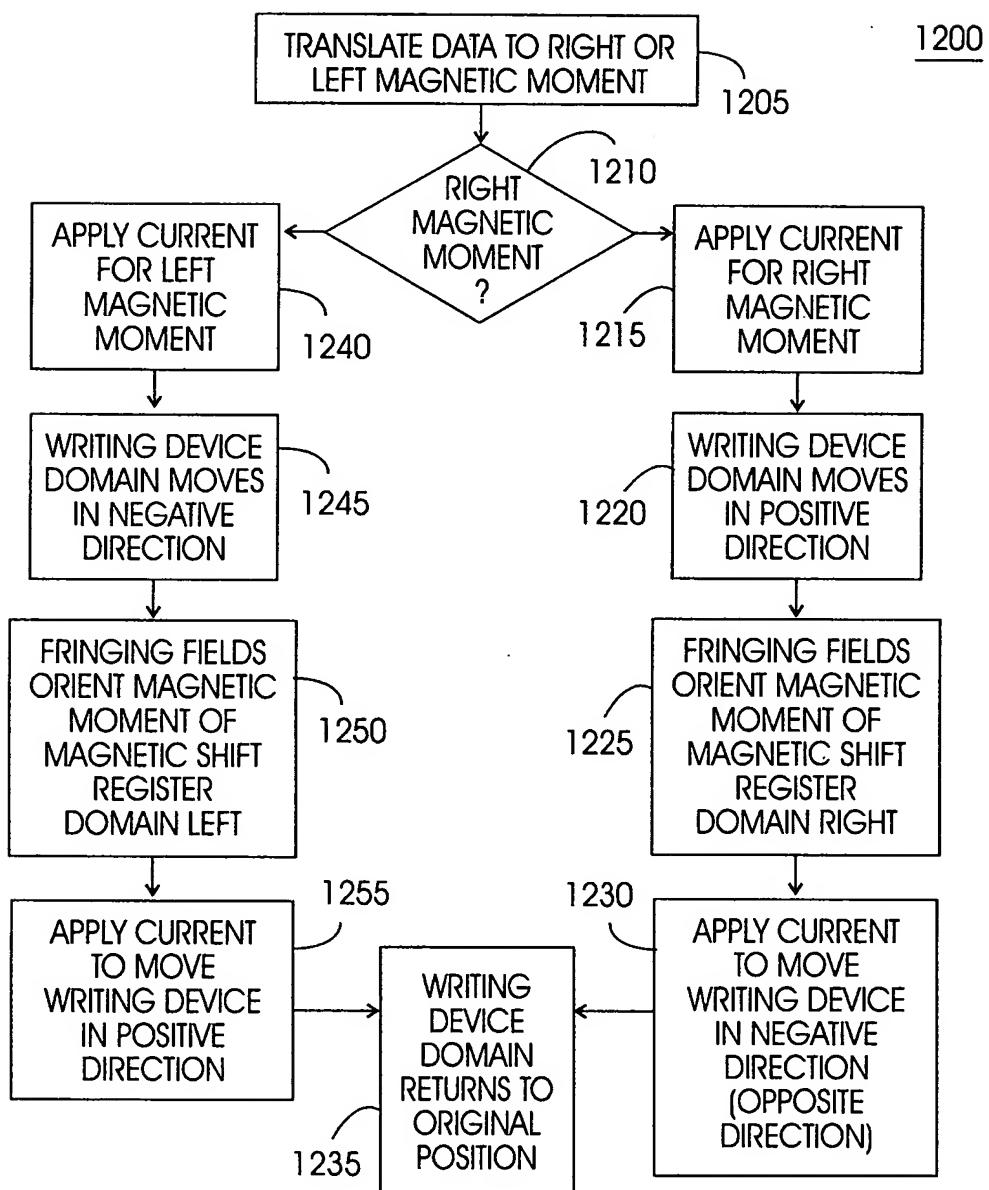


FIG. 12

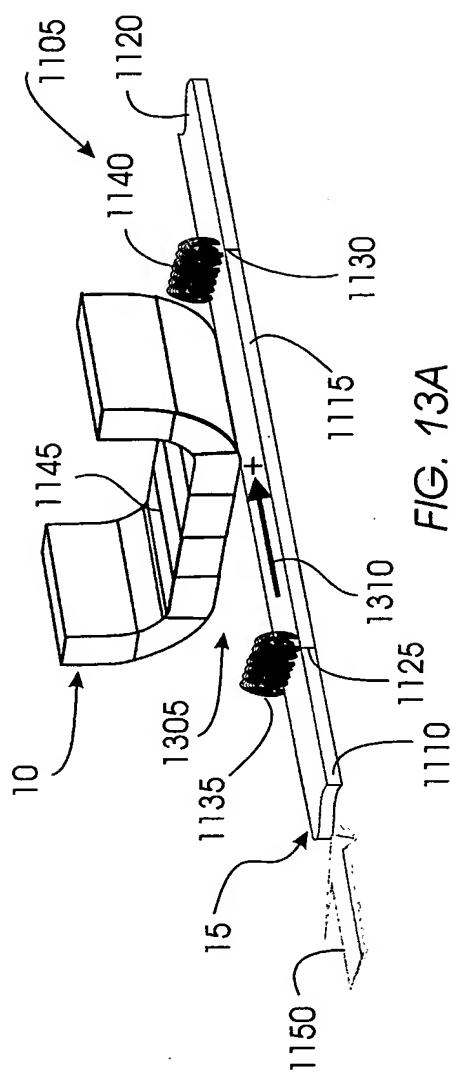


FIG. 13A

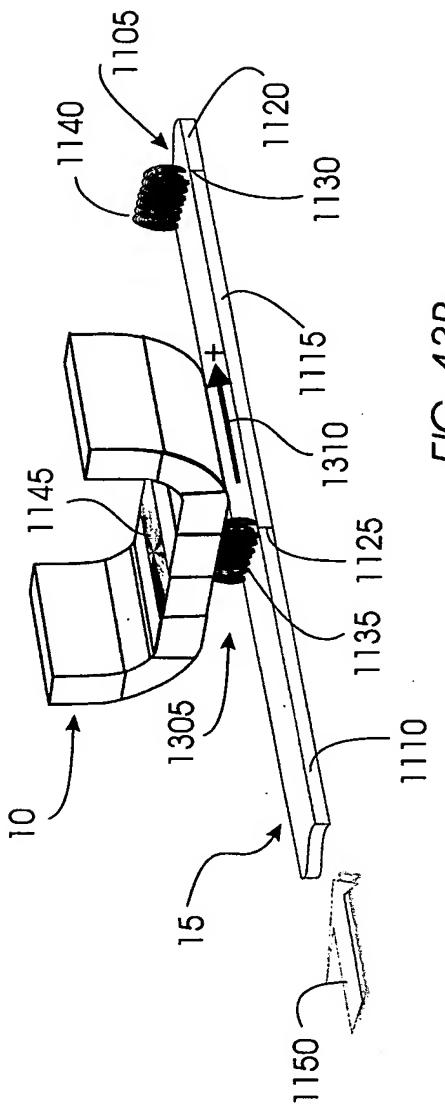
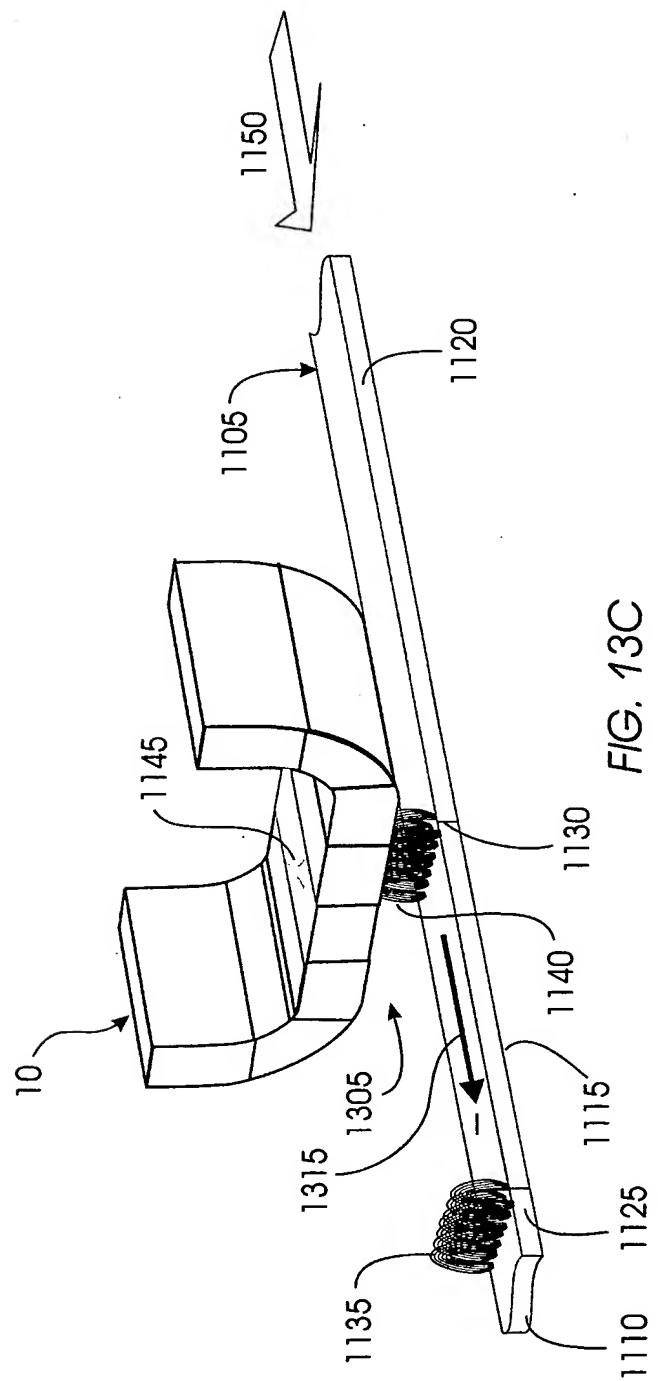
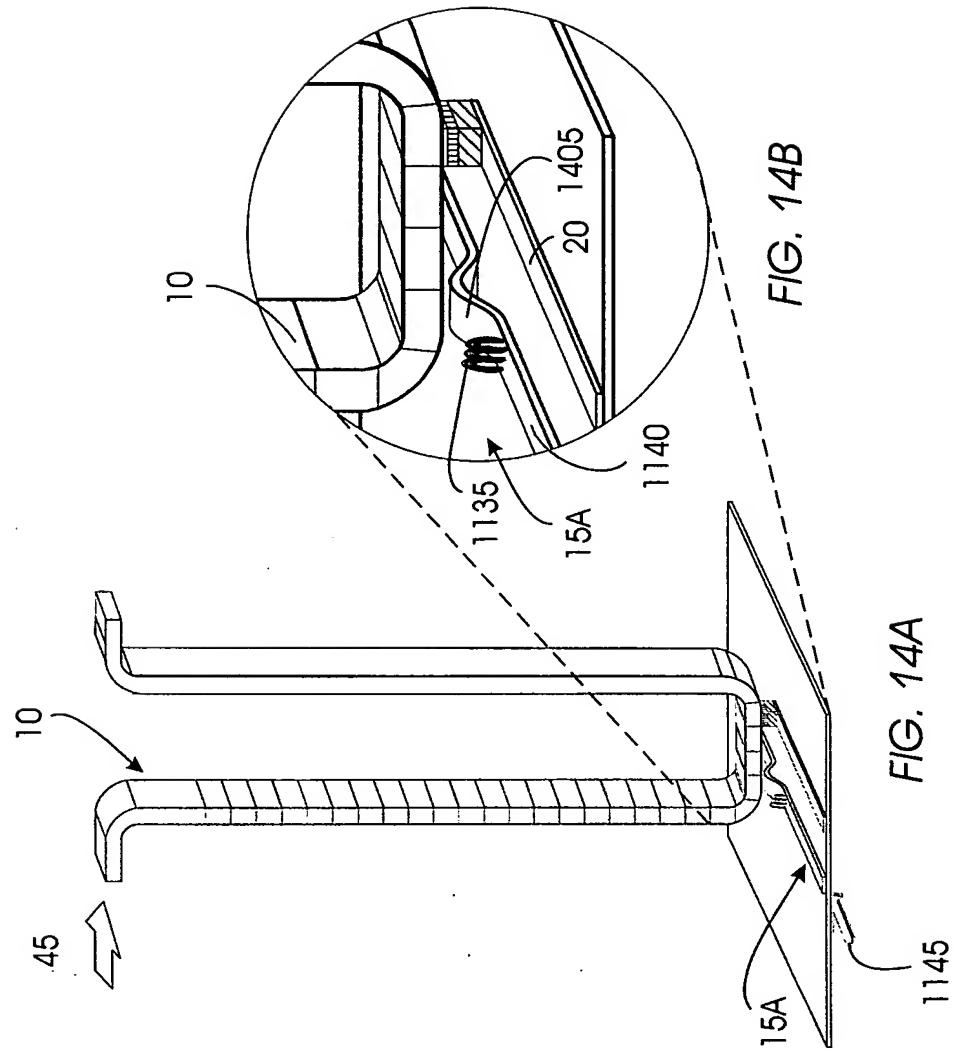
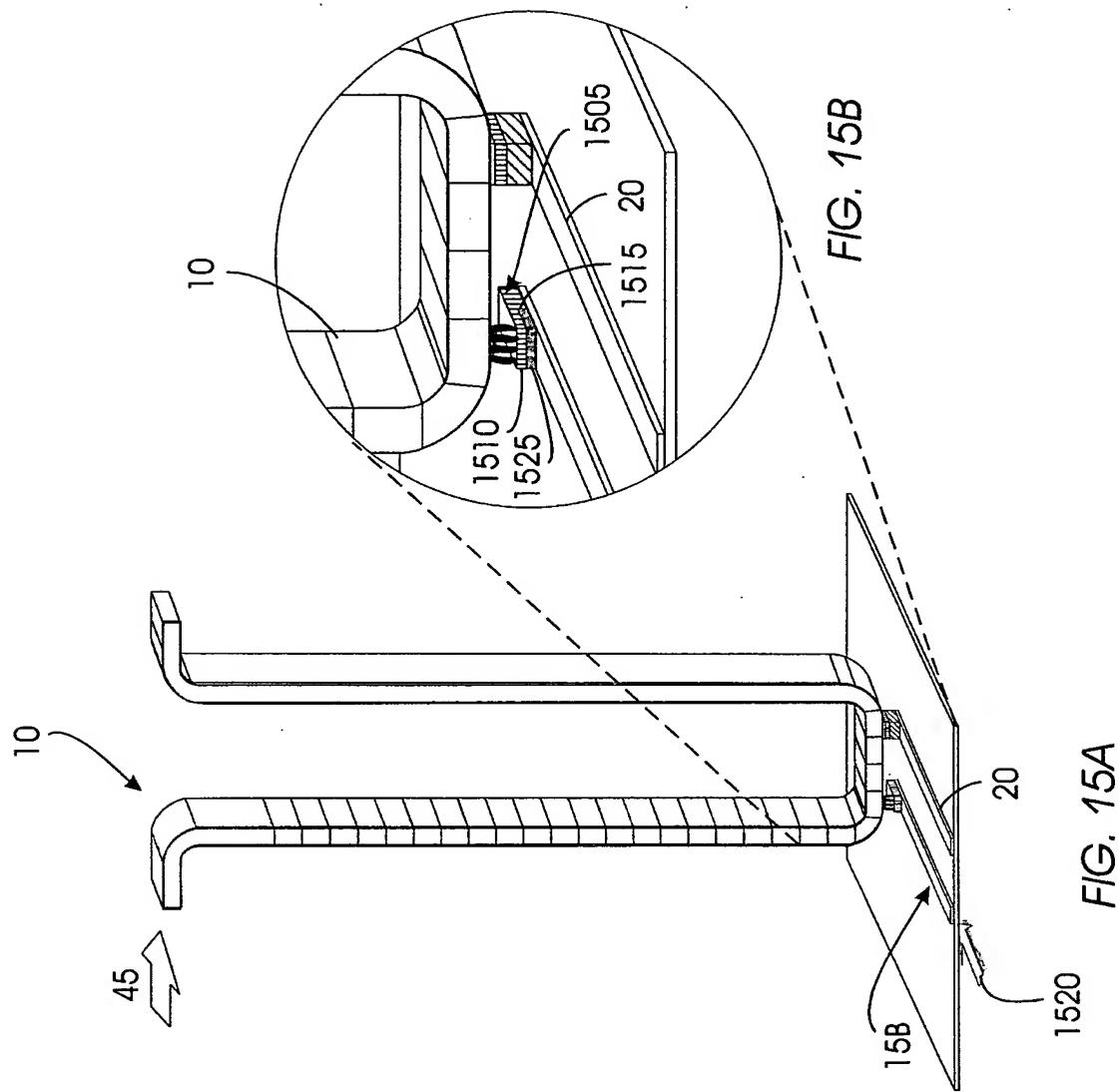


FIG. 13B







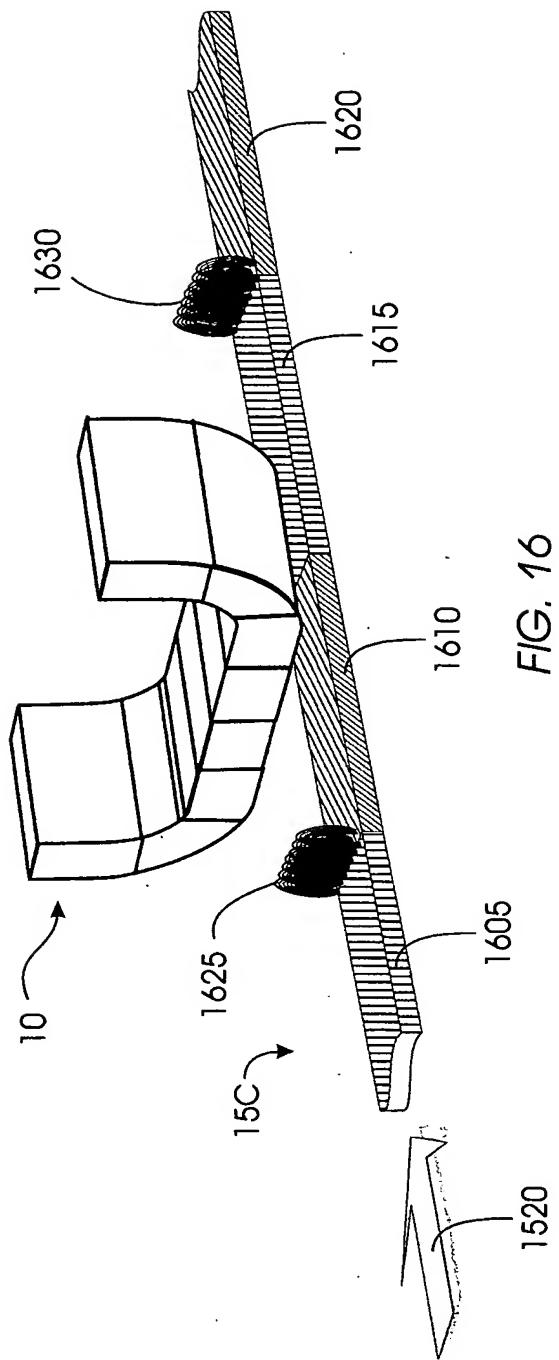


FIG. 16

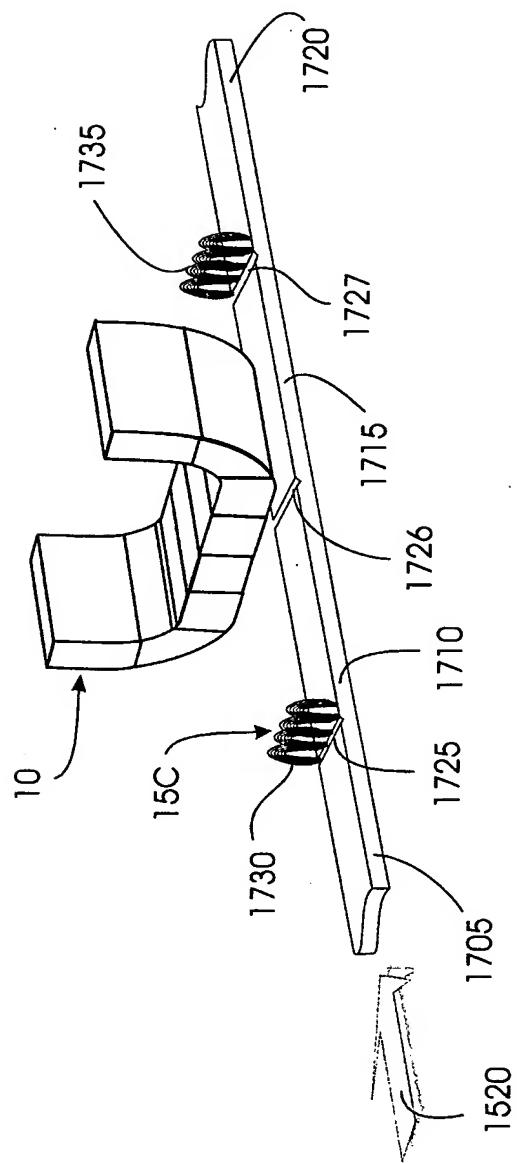


FIG. 17

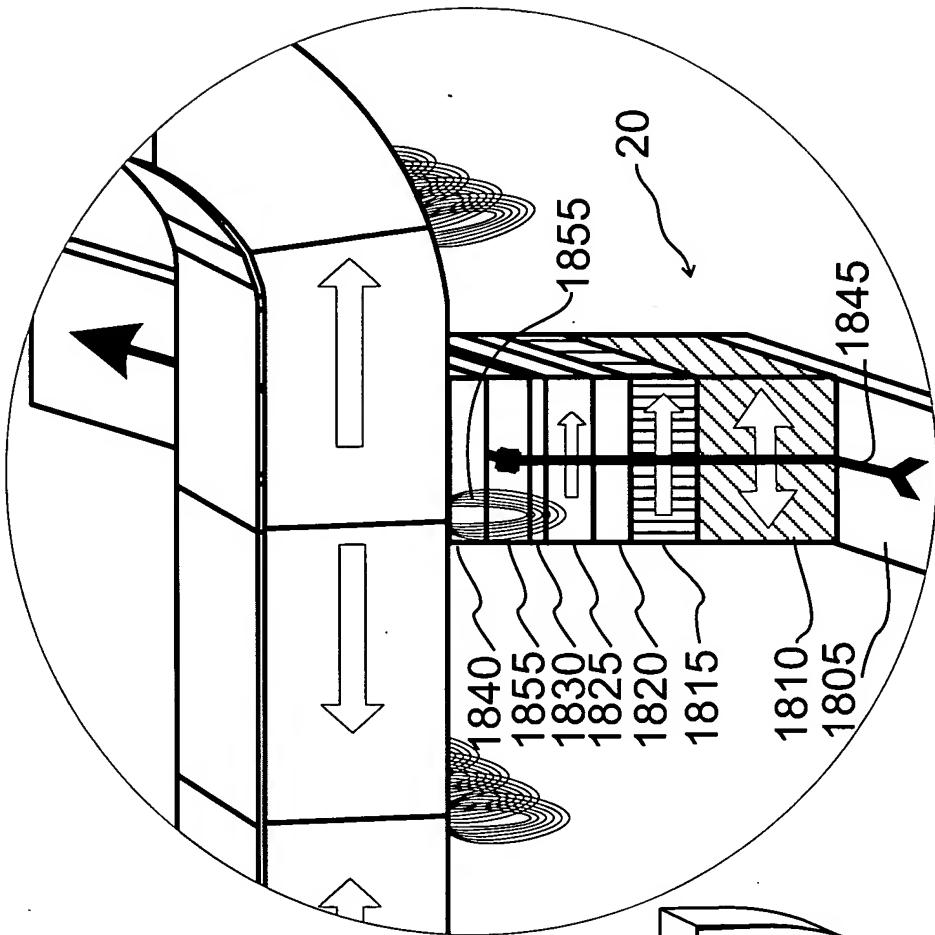


FIG. 18B

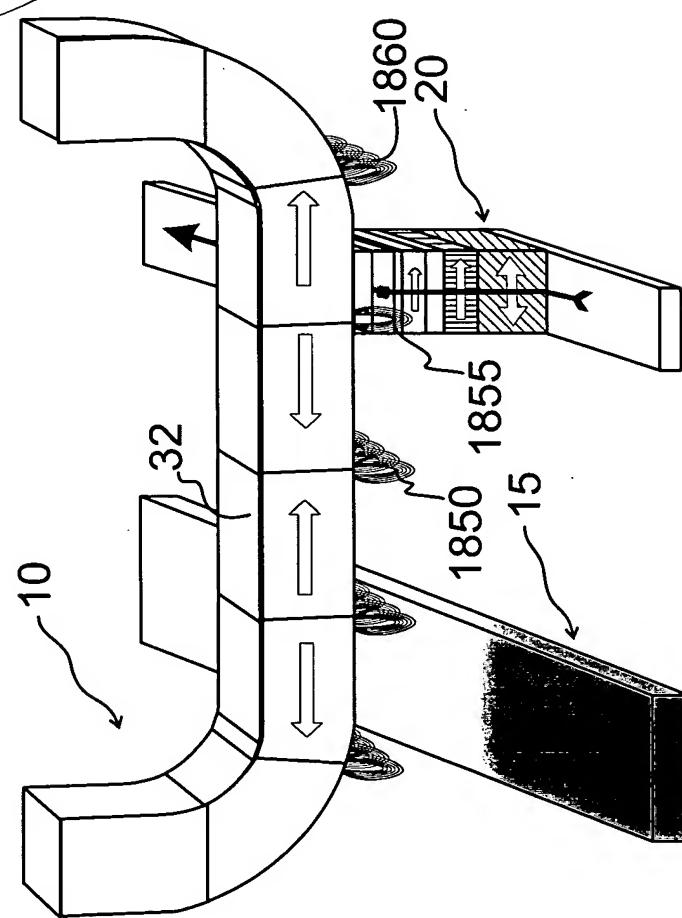
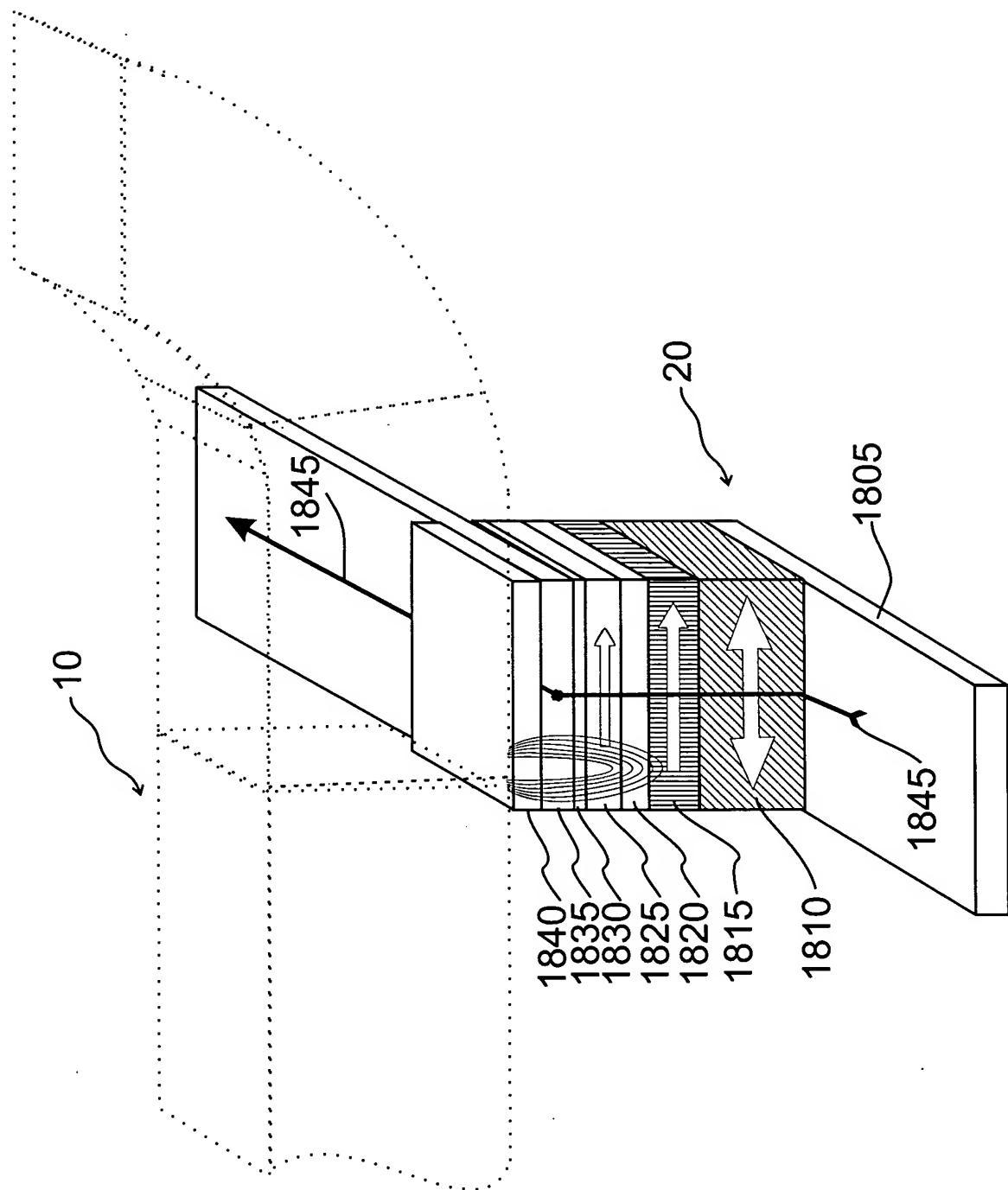


FIG. 18A

Fig 19



2000

Select Domain Wall  
to Read

2005

Move Domain Wall  
to Reading Device (FIG. 3)

2010

Measure Current  
In Reading Device

2015

Determine Direction  
of Magnetic Fringing Field  
from Current Value

2020

*FIG. 20*